

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method of predictive predownloading of next objects with delta encoding, including steps of:
receiving from a client a request for an object;
updating a prediction map in response to the request and a referring page that indicates an object just previously requested by the client, the prediction map associating the requested object with next objects likely to be requested;
maintaining a stored set of templates for the requested object, each template comprising a selected portion of the requested object that is relatively unchanging between instances of the requested object;
calculating delta information for one particular template of the stored set of templates, delta information comprising selected portions of the requested object that may vary between instances of the requested object; and
sending to the client (i) a hint that includes a suggestion to download a next object based on the prediction map embedded in a response message with [[and]] (ii) delta information for the requested object that specifies the particular template.
2. (Previously Presented) The method of claim 1 wherein the requested object comprises a web page.
3. (Previously Presented) The method of claim 1 wherein the hint comprises information to be stored in a client cache.
4. (Previously Presented) The method of claim 1 wherein the sending step comprises sending to the client the next object.

5. (Previously Presented) The method of claim 1 wherein the maintaining step comprises conditionally building a new template when the delta information exceeds a selected threshold.
6. (Previously Presented) The method of claim 1 wherein the maintaining step comprises determining a number of changes made to a set of selected objects and conditionally building a new template when the number of changes exceeds a selected threshold.
7. (Previously Presented) The method of claim 6 wherein the selected threshold includes a reference to one or more of the following: object age, object size, object type and operator selection.
8. (Currently Amended) An apparatus for predictive predownloading of templates with delta encoding, including:
 - a delta encoder configured to calculate delta information for a requested web page responsive to a stored set of templates, each template comprising a selected portion of the requested web page that is relatively unchanging between instances of the requested web page, delta information comprising selected portions of the requested web page that may vary between instances of the requested web page;
 - a template builder configured to build a new template for the requested web page if the delta information for the requested web page exceeds a threshold value; and
 - a predictor configured to determine a set of next web pages likely to be requested in response to the requested web page and a referring page that indicates a web page just previously requested, the predictor also interacts with the template builder to build a template for at least one of the set of next web pages.

9. (Previously Presented) The apparatus of claim 8 wherein the threshold value includes a reference to one or more of the following: object age, object size, object type and operator selection.
10. (Previously Presented) The apparatus of claim 8 wherein the template builder builds the at least one template of the set of next web pages.
11. (Previously Presented) The apparatus of claim 8 wherein the predictor generates a hint that hint includes suggestions to a client what next object to download.
12. (Previously Presented) The apparatus of claim 11 wherein the hint includes URLs of templates for likely next pages.
13. (Previously Presented) The apparatus of claim 11 wherein the hint includes information to be stored in a client cache.
- 14-18. (Canceled)
19. (Previously Presented) The apparatus of claim 11 further including a message generator configured to send to a client (i) the hint and (ii) delta information for the requested web page.
20. (Previously Presented) The apparatus of claim 19 wherein the message generator is configured to send to a client the next object identified by the hint.